Attorney Docket No. BURST-2

Applicants

Jorma Virtanen

Serial No.

09/120,049

Filed

July 21, 1998

For

OPTICAL DISK-BASED ASSAY DEVICES AND METHODS

Examiner

Unassigned

Art Unit

1632

Hon. Assistant Commissioner for Patents Washington, D.C. 20231

TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT

Sir:

Transmitted herewith is an Information Disclosure Statement in the above-identified application. This Statement is submitted:

- [] within three months of the application filing date;
- [X] more than three months from the application filing date but before the mailing date of the first Office Action on the merits.

In accordance with 37 C.F.R. § 1.98, submission of this Statement requires no fee. However, if for any reason a fee is due, the Commissioner is hereby authorized to charge

payment of any fees required in connection with this Information Disclosure Statement to Deposit Account No. 06-1075. A duplicate copy of this letter is transmitted herewith.

Respectfully submitted,

1<u>/1/95</u> Date

Danjel M. Becker

Registration No. 38,376 Attorney for Applicant

c/o

FISH & NEAVE

1251 Avenue of the Americas New York, New York 10020-1104

Tel.: (650) 617-4000

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WASHINGTON, D.C. 20231, ON

MARTHA D. JOHNSON

Signature of Person Signing

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

: Jorma Virtanen

Serial No.

: 09/120,049

Filed

: July 21, 1998

For:

: OPTICAL DISK-BASED ASSAY

DEVICES AND METHODS

Group:

: 1632

Hon. Asst. Commissioner of Patents and Trademarks Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98,

applicants hereby make the following documents of record in the above identified application.*

U.S. Patents Sundberg et al. Respess Yashiro Fodor et al. Fodor et al.	5,624,711 5,599,662 5,580,696 5,510,270 5,489,678 5,462,839	04/1997 02/1997 12/1996 04/1996 02/1996 10/1995 08/1995
Fodor et al.	5,489,678	10/1995
de Rooij et al.	5,445,934 5,429,807	07/1995 06/1995
Matson et al.	5,424,186 5,412,087	05/1995 04/1995
McGall et al. Pirrung et al.	5,405,783	V 1/ 2 -1

^{*}Applicants reserve the right to challenge any of the cited references as prior art.



U.S. Patents (cont.)

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Winkler et al. Semancik et al. Ikeda et al. Parce et al. Oh et al. Hafeman et al. Chow et al. Ertinghausen Gries et al. Hayes et al. Virtanen et al. Carter et al. Carter et al. Gansow et al. Tom et al. Gibbons et al. Maggio Litman et al. Maggio et al. Ullman Maier, Jr. Edwards et al. Chari Ullman et al. Kronick et al. Schuurs et al. Rubenstein et al. Schuurs et al.	5,384,261 5,345,213 5,334,837 5,278,048 5,168,057 5,164,319 5,112,134 5,087,556 5,021,236 4,877,745 4,756,971 4,608,344 RE 33,064 4,542,102 4,472,509 B1 4,366,241 4,287,300 4,277,437 4,275,149 4,233,402 4,160,645 4,104,029 4,062,733 4,037,257 3,996,345 3,939,350 3,850,752 3,817,838 3,817,837	01/1994 08/1994 08/1994 01/1994 12/1992 11/1992 05/1992 05/1992 06/1991 10/1989 07/1988 08/1986 09/1989 09/1984 10/1988 09/1981 07/1981 06/1981 11/1980 07/1979 08/1979 08/1977 12/1976 02/1976 11/1974 06/1974
Schuurs et al. Schuurs et al. Catt	3,817,837 3,791,932 B1 3,654,090 3,646,346	06/1974 02/1974 07/1982 02/1972

Foreign Patent Publications

WIPO WIPO	WO 98/28623	07/1998
WIPO WIPO	₩O 98/07019 ₩O 96/09548	02/1998 03/1996
Europe	WO 95/34890 0 504 432 A1	12/1995 09/1992
Europe Europe	0 417 305 A1 0 392 475 A2	03/1991

Other Documents

Butcher, A. et al., "Using PCR for Detection of HIV-1 Infection," Clinical Immunology Newsletter, 12(5):73-76 (1992).

Cheng, J. et al., "Preparation and Hybridization Analysis of DNA/RNA from *E.Coli* on Microfabricated Bioelectronic Chips," Nature Biotechnology, 16(6):541-546 (1998).

Diamandis, E. et al. (eds.), <u>Immunoassay</u>, Academic Press (1996).

Fodor, S.P.A. et al., "Multiplexed Biochemical Assays with Biological Chips," Nature, 364(6437):555-556 (1993).

Given, A.L., <u>Flow Cytometry</u>, <u>First Principles</u>, Wiley-Liss, New York, N.Y.(1992).

Gosling, J.P. et al. (eds.), <u>Immunoassay: Laboratory Analysis and Clinical Applications</u>, Butterworth-Heinemann, Newton, Massachusetts (1994).

Green, F.J., <u>The Sigma-Aldrich Handbook of Stains, Dyes and Indicators</u>, Aldrich Chemical Company Inc., Milwaukee, Wisconsin (1991).

Hayat, M.A. (ed.), <u>Immunogold-Silver Staining</u>, CRC Press (1995).

Jackman, R.J. et al., "Fabrication of Submicrometer Features on Curved Substrates by Microcontact Printing," <u>Science</u>, 269:664-666 (1995).

Law, B. (ed.), <u>Immunoassay</u>, <u>A Practical Guide</u>, Taylor & Francis, Great Britain (1996).

Nilsson, M. et al., "Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection," <u>Science</u>, 265:2085-2088 (1994).

Robinson, J.P. (ed.), <u>Handbook of Flow Cytometry Methods</u>, Wiley-Liss, New York, N.Y. (1993).

Szathmary, E., "The First Two Billion Years," <u>Nature</u>, 387(6634):662-663 (1997).

Copies of the foregoing documents are submitted herewith.

It is respectfully requested that these documents be (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) printed on any

patent that may issue on this application. Applicant requests that a copy of Form PTO-1449 (submitted in duplicate herewith), as considered and initialed by the Examiner, be returned with the next communication.

An early and favorable action is respectfully requested.

Date

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COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231, ON

MARTHA D. JOHNSON

Signature of Person Signing

Respectfully submitted,

Daniel M. Becker Reg. No. 38,376

Attorney for Applicants

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New York, N.Y. 10020
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Sheet__1__ of __4_

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

ATTY. DOCKET NO. BURST-2

SERIAL NO. 09/120,049 2

APPLICANT Jorma Virtanen

FILING DATE

July 21, 1998

GROUP 1632 09/911253

EXAMINER FILING DATE							
INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE	
	5,624,711	04/1997	Sundberg et al.	427	261		
	5,599,662	02/1997	Respess	435	5		
	5,580,696	12/1996	Yashiro.	430	270.17		
	5,510,270	04/1996	Fodor et al.	436	518		
	5,489,678	02/1996	Fodor et al.	536	22.1		
	5,462,839	10/1995	deRooij et al.	430	320		
	5,445,934	08/1995	Fodor et al.	435	6		
	5,429,807	07/1995	Matson et al.	422	131		
	5,424,186	06/1995	Fodor et al.	435	6		
	5,412,087	05/1995	McGall et al.	536	24.3		
	5,405,783	04/1995	Pirrung et al.	436	518		
	5,384,261	01/1995	Winkler et al.	436	518		
	5,345,213	09/1994	Semancik et al.	338	34		
	5,334,837	08/1994	Ikeda et al.	250	339		
	5,278,048	01/1994	Parce et al.	436	29		
	5,168,057	12/1992	Oh et al.	435	174		
	5,164,319	11/1992	Hafeman et al.	435	291		
	5,112,134	05/1992	Chow et al.	356	427		
	5,087,556	02/1992	Ertinghausen	435	7.9	,	
	5,021,236	06/1991	Gries et al.	424	9		
	4,877,745	10/1989	Hayes et al.	436	166		
	4,756,971	07/1988	Virtanen et al.	428	405		

EXAMINER DATE CONSIDERED

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SERIAL NO. 09/120,049

APPLICANT Jorma Virtanen

FILING DATE July 21, 1998 GROUP 1632

		ι	J.S. PATENT DOCUMEN	rs		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,608,344	08/1986	Carter et al.	436	34	
	RE33,064	09/1989	Carter et al.	436	34	
	4,542,102	09/1985	Dattagupta et al.	435	6	
	4,472,509	09/1984	Gansow et al.	436	548	
	B1 4,366,241	10/1988	Tom et al.	435	7	
	4,287,300	09/1981	Gibbons et al.	435	5	
	4,277,437	07/1981	Maggio	422	61	
	4,275,149	06/1981	Litman et al.	435	7	
	4,233,402	11/1980	Maggio et al.	435	7	, , ,
	4,160,645	07/1979	Ullman	23	230B	
	4,104,029	08/1978	Maier, Jr.	23	230B	
	4,062,733	12/1977	Edwards et al.	195	103.7	
	4,037,257	07/1977	Chari	360	51	
	3,996,345	12/1976	Ullman et al.	424	12	
	3,939,350	02/1976	Kronick et al.	250	365	
	3,850,752	11/1974	Schuurs et al.	195	103.5R	
	3,817,838	06/1974	Harris et al.	195	103.5R	
	3,817,837	06/1974	Rubenstein et al.	195	103.5R	
	3,791,932	02/1974	Schuurs et al.	195	103.5R	
	B1 3,654,090	07/1982	Schuurs et al.	435	7	
	3,646,346	02/1972	Catt	250	83	

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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			FOREIG	N PATENT DOCUM	ENTS	3	· · · · · · · · · · · · · · · · · · ·		TRANS	SLATI	ON
		DOCUMENT	DATE	COUNTRY	CL	ASS	SUBC	LASS	YE	S	NO
	WO :	98/28623	07/1998	WIPO	G0	1N	33/54	3	Х		
	wo:	98/07019	02/1998	WIPO	G0	1N	21/07		Х		
	WO :	96/09548	03/1996	WIPO	G0	1N	33/54	3 . X			
	WO :	95/34890	12/1995	WIPO	G1	1B	7/00	7/00			
	0 504	4 432 A1	09/1992	EP	G0	1N	33/543		X		
	0 417	7 305 A1	03/1991	EP	G0	1N	35/00	35/00 X			
	0 392	2 475 A2	10/1990	EP .	G0	1N	1/28 X				
		OTHER DOC	UMENTS (Inc	cluding Author, Title	e, Da	te, Pe	rtinent	Page	s, Etc.)		
·		Butcher, A. et Newsletter, 12	al., "Using PC (5):73-76 (19	CR for Detection of H 92).	IV-1	Infecti	on," <u>Cl</u>	inical I	mmuno	logy	
	Cheng, J. et al., "Preparation and Hybridization Analysis of DNA/RNA from <i>E. Coli</i> on Microfabricated Bioelectronic Chips," Nature Biotechnology, 16(6):541-546 (1998).										
		Diamandis, E. et al. (eds.), Immunoassay, Academic Press (1996).									
	Fodor, S.P.A. et al., "Multiplexed Biochemical Assays with Biological Chips," Nature, 364(6437):555-556 (1993).										
	Given, A.L., Flow Cytometry, First Principles, Wiley-Liss, New York, N.Y. (1992).										
		Gosling, J.P. e	t al. (eds.), <u>Ir</u>	mmunoassay: Labora wton, Massachusett	atory	Analy					<u>s,</u>

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DATE CONSIDERED

FORM 2TO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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APPLICANT
Jorma Virtanen

FILING DATE July 21, 1998 GROUP 1632

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	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Green, F.J., <u>The Sigma-Aldrich Handbook of Stains, Dyes and Indicators</u> , Aldrich Chemical Company Inc., Milwaukee, Wisconsin (1991).
	Hayat, M.A. (ed.), Immunogold-Silver Staining, CRC Press (1995).
	Jackman, R.J. et al., "Fabrication of Submicrometer Features on Curved Substrates by Microcontact Printing," <u>Science</u> , 269:664-666 (1995).
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·	Robinson, J.P. (ed.), <u>Handbook of Flow Cytometry Methods</u> , Wiley-Liss, New York, N.Y. (1993).
	Szathmary, E., "The First Two Billion Years," <u>Nature</u> , 387(6634):662-663 (1997).
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